

[illegible]

— 32 —

Val

[illegible]

[illegible]

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```



```
1 0001 0 MODULE INITIO (  
2 0002 0 LANGUAGE (BLISS32),  
3 0003 0 IDENT = 'V04-000'  
4 0004 0 ) =  
5 0005 1 BEGIN  
6 0006 1  
7 0007 1  
8 0008 1 *****  
9 0009 1 *  
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
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27 0027 1 *  
28 0028 1 *  
29 0029 1 *****  
30 0030 1  
31 0031 1 ++  
32 0032 1  
33 0033 1 FACILITY: INIT Utility Structure Level 1  
34 0034 1  
35 0035 1 ABSTRACT:  
36 0036 1  
37 0037 1 These routines do basic disk I/O.  
38 0038 1  
39 0039 1 ENVIRONMENT:  
40 0040 1  
41 0041 1 STARLET operating system, including privileged system services  
42 0042 1 and internal exec routines.  
43 0043 1  
44 0044 1 --  
45 0045 1  
46 0046 1  
47 0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 14-Nov-1977 19:42  
48 0048 1  
49 0049 1 MODIFIED BY:  
50 0050 1  
51 0051 1 V03-001 ACG0361 Andrew C. Goldstein, 21-Sep-1983 17:06  
52 0052 1 Eliminate READ_PHYSICAL routine  
53 0053 1  
54 0054 1 **  
55 0055 1  
56 0056 1  
57 0057 1 LIBRARY 'SYS$LIBRARY:LIB.L32';
```

INITIO  
V04-000

H 1  
16-Sep-1984 01:52:40  
14-Sep-1984 12:35:18

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[INIT.SRC]INITIO.B32;1 Page (1) 2

```
: 58      0058 1 REQUIRE 'SRC$:INIDEF.B32';
: 59      0349 1 REQUIRE 'LIBD$: [VMSLIB.OBJ]INITMSG.B32';
: 60      0481 1
: 61      0482 1
: 62      0483 1 FORWARD ROUTINE
: 63      0484 1 READ_BLOCK,      ! read block by LBN
: 64      0485 1 WRITE_BLOCK    ! write block by LBN
                                : NOVALUE;
```



```

66 0486 1 GLOBAL ROUTINE READ_BLOCK (LBN, BUFFER) =
67 0487 1
68 0488 1 !++
69 0489 1
70 0490 1 FUNCTIONAL DESCRIPTION:
71 0491 1
72 0492 1 This routine reads a disk block by logical block number.
73 0493 1
74 0494 1
75 0495 1 CALLING SEQUENCE:
76 0496 1 READ_BLOCK (ARG1, ARG2)
77 0497 1
78 0498 1 INPUT PARAMETERS:
79 0499 1 ARG1: logical block number
80 0500 1 ARG2: buffer address
81 0501 1
82 0502 1 IMPLICIT INPUTS:
83 0503 1 CHANNEL: channel number assigned to disk
84 0504 1
85 0505 1 OUTPUT PARAMETERS:
86 0506 1 NONE
87 0507 1
88 0508 1 IMPLICIT OUTPUTS:
89 0509 1 NONE
90 0510 1
91 0511 1 ROUTINE VALUE:
92 0512 1 status of read
93 0513 1
94 0514 1 SIDE EFFECTS:
95 0515 1 block read into buffer
96 0516 1
97 0517 1 !--
98 0518 1
99 0519 2 BEGIN
100 0520 2
101 0521 2 LOCAL
102 0522 2 STATUS, ! system service status
103 0523 2 IO_STATUS : VECTOR [4, WORD]; ! I/O status block
104 0524 2
105 0525 2 EXTERNAL
106 0526 2 CHANNEL; ! I/O channel number
107 0527 2
108 0528 2
109 P 0529 2 STATUS = $QIOW (CHAN = .CHANNEL,
110 P 0530 2 FUNC = IOS_READBLK,
111 P 0531 2 IOSB = IO_STATUS[0],
112 P 0532 2 P1 = .BUFFER,
113 P 0533 2 P2 = 512,
114 P 0534 2 P3 = .LBN
115 0535 2 );
116 0536 2 IF .STATUS THEN STATUS = .IO_STATUS[0];
117 0537 2 RETURN .STATUS;
118 0538 2
119 0539 1 END; ! end of routine READ_BLOCK
```

.TITLE INITIO



INITIO  
V04-000

J 1  
16-Sep-1984 01:52:40  
14-Sep-1984 12:35:18

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[INIT.SRC]INITIO.B32;1  
Page 4  
(2)

				.IDENT	\V04-000\	
				.EXTRN	CHANNEL, SYSSQIOW	
				.PSECT	\$CODE\$,NOWRT,2	
			0000 00000	.ENTRY	READ_BLOCK, Save nothing	: 0486
5E		08	C2 00002	SUBL2	#8, SP	: 0535
		7E	7C 00005	CLRQ	-(SP)	:
		7E	D4 00007	CLRL	-(SP)	:
	04	AC	DD 00009	PUSHL	LBN	:
7E	0200	8F	3C 0000C	MOVZWL	#512, -(SP)	:
	08	AC	DD 00011	PUSHL	BUFFER	:
		7E	7C 00014	CLRQ	-(SP)	:
	20	AE	9F 00016	PUSHAB	IO_STATUS	:
		21	DD 00019	PUSHL	#33	:
	0000G	CF	DD 0001B	PUSHL	CHANNEL	:
		7E	D4 0001F	CLRL	-(SP)	:
00000000G	00	0C	FB 00021	CALLS	#12, SYSSQIOW	:
	03	50	E9 00028	BLBC	STATUS, 1\$	: 0536
	50	6E	3C 0002B	MOVZWL	IO_STATUS, STATUS	:
		04	0002E 1\$:	RET		: 0539

; Routine Size: 47 bytes,      Routine Base: \$CODE\$ + 0000



```
0540 1 GLOBAL ROUTINE WRITE_BLOCK (LBN, BUFFER) : NOVALUE =
0541 1
0542 1 ++
0543 1
0544 1 FUNCTIONAL DESCRIPTION:
0545 1
0546 1     This routine writes a disk block by logical block number.
0547 1
0548 1
0549 1 CALLING SEQUENCE:
0550 1     WRITE_BLOCK (ARG1, ARG2)
0551 1
0552 1 INPUT PARAMETERS:
0553 1     ARG1: logical block number
0554 1     ARG2: buffer address
0555 1
0556 1 IMPLICIT INPUTS:
0557 1     CHANNEL: channel number assigned to disk
0558 1
0559 1 OUTPUT PARAMETERS:
0560 1     NONE
0561 1
0562 1 IMPLICIT OUTPUTS:
0563 1     NONE
0564 1
0565 1 ROUTINE VALUE:
0566 1     status of write
0567 1
0568 1 SIDE EFFECTS:
0569 1     block written from buffer
0570 1
0571 1 --
0572 1
0573 2 BEGIN
0574 2
0575 2 LOCAL
0576 2     STATUS,                ! system service status
0577 2     IO_STATUS              : VECTOR [4, WORD]; ! I/O status block
0578 2
0579 2 EXTERNAL
0580 2     CHANNEL;                ! I/O channel number
0581 2
0582 2
0583 2 STATUS = $QIOW (CHAN = .CHANNEL,
0584 2     FUNC = IOS_WRITEBLK OR IOSM_DATACHECK,
0585 2     IOSB = IO_STATUS[0],
0586 2     P1 = .BUFFER,
0587 2     P2 = 512,
0588 2     P3 = .LBN
0589 2 );
0590 2 IF .STATUS THEN STATUS = .IO_STATUS[0];
0591 2 IF NOT .STATUS
0592 2 THEN ERR_EXIT (.STATUS);
0593 2
0594 1 END;                ! end of routine WRITE_BLOCK.
```



5E	0000	00000	.ENTRY	WRITE BLOCK, Save nothing	0540
	08	C2 00002	SUBL2	#8, SP	
	7E	7C 00005	CLRQ	-(SP)	0589
	7E	D4 00007	CLRL	-(SP)	
	04	AC DD 00009	PUSHL	LBN	
7E	0200	8F 3C 0000C	MOVZWL	#512, -(SP)	
	08	AC DD 00011	PUSHL	BUFFER	
		7E 7C 00014	CLRQ	-(SP)	
	20	AE 9F 00016	PUSHAB	IO STATUS	
7E	4020	8F 3C 00019	MOVZWL	#16416, -(SP)	
	0000G	CF DD 0001E	PUSHL	CHANNEL	
		7E D4 00022	CLRL	-(SP)	
00000000G	00	0C FB 00024	CALLS	#12, SYSSQIOW	
	06	50 E9 0002B	BLBC	STATUS, 1\$	0590
	50	6E 3C 0002E	MOVZWL	IO STATUS, STATUS	
	09	50 E8 00031	BLBS	STATUS, 2\$	0591
		50 DD 00034 1\$:	PUSHL	STATUS	0592
00000000G	00	01 FB 00036	CALLS	#1, LIB\$STOP	
		04 0003D 2\$:	RET		0594

; Routine Size: 62 bytes, Routine Base: \$CODE\$ + 002F

: 176	0595	1
: 177	0596	1 END
: 178	0597	0 ELUDOM

.EXTRN LIB\$STOP

## PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	109	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

## Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	10 0	1000	00:01.9



INITIO  
V04-000

M 1  
16-Sep-1984 01:52:40  
14-Sep-1984 12:35:18

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[INIT.SRC]INITIO.B32;1 Page 7 (3)

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:INITIO/OBJ=OBJ\$:INITIO MSRC\$:INITIO/UPDATE=(ENHS:INITIO)

: Size: 109 code + 0 data bytes  
: Run Time: 00:10.6  
: Elapsed Time: 00:26.6  
: Lines/CPU Min: 3379  
: Lexemes/CPU-Min: 46279  
: Memory Used: 87 pages  
: Compilation Complete



0188 AH-BT13A-SE  
VAX/VMS V4.0

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SQL

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LIS

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LIS

INSTAL

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REQ

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CLD

INPSMB  
LIS

INSOLDCMD  
CLD

INTUOL  
LIS

RDHOME  
LIS

INPSMB

INPSMBCLD  
LIS

INSCMD  
LIS